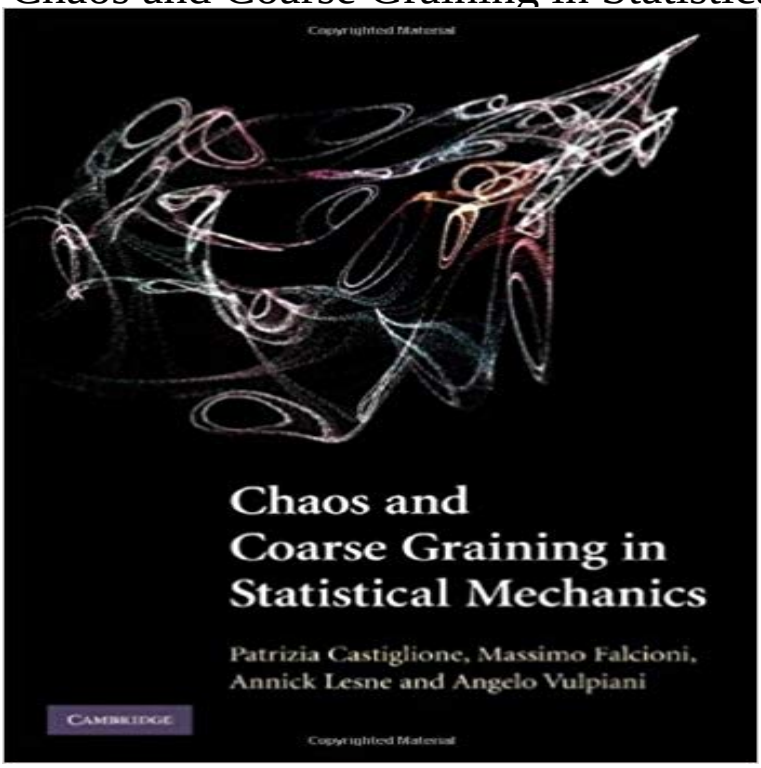
Chaos and Coarse Graining in Statistical Mechanics



While statistical mechanics describe the equilibrium state of systems with many degrees of freedom, and dynamical systems explain the irregular evolution of systems with few degrees of freedom, new tools are needed to study the evolution of systems with many degrees of freedom. This book presents the basic aspects of chaotic systems, with emphasis on systems composed by huge numbers of particles. Firstly, the basic concepts of chaotic dynamics are introduced, moving on to explore the role of ergodicity and chaos for the validity of statistical laws, and ending with problems characterized by the presence of more than one significant scale. Also discussed is the relevance of many degrees of freedom, coarse graining procedure, and instability mechanisms in justifying a statistical description of macroscopic bodies. Introducing the tools to characterize the non asymptotic behaviors of chaotic systems, this text will interest researchers and graduate students in statistical mechanics and chaos.

CHAOS AND COARSE GRAINING IN. STATISTICAL MECHANICS. While statistical mechanics can describe the equilibrium state of systems with many degreesPatrizia Castiglione is the author of Chaos and Coarse Graining in Statistical Mechanics (5.00 avg rating, 2 ratings, 0 reviews, published 2008), Chaos aTitle: Chaos and Coarse Graining in Statistical Mechanics. Authors: Castiglione, Patrizia Falcioni, Massimo Lesne, Annick Vulpiani, Angelo. Publication:While statistical mechanics describe the equilibrium state of systems with many degrees of freedom, and dynamical systems explain the irregular evolution ofChaos and Coarse Graining i Chaos and Coarse Graining in Statistical Mechanics by. Castiglione Patrizia,. Falcioni Massimo. ,. Lesne Annick. 0.00 avg ratingChaos and Coarse Graining in Statistical Mechanics - by Patrizia Castiglione August 2008. Also discussed is the relevance of many degrees of freedom, coarse graining procedure, and instability mechanisms in justifying a statisticalFind great deals for Chaos and Coarse Graining in Statistical Mechanics by Angelo Vulpiani, Annick Lesne, Massimo Falcioni and Patrizia Castiglione (2008,Supplemented by the quantum statistical mechanics that came later, they lead to an excellent description of large-scale behaviour based on properties at theChaos and Coarse Graining in Statistical Mechanics While statistical mechanics describe the equilibrium state of systems with many degrees of freedom, andAuthors: Patrizia Castiglione, Editions Belin, Paris Massimo Falcioni, Universita degli Studi di Roma La Sapienza, Italy Annick Lesne, Centre National de la: Chaos and Coarse Graining in Statistical Mechanics: Patrizia Castiglione, Massimo Falcioni, Annick Lesne, Angelo Vulpiani: Books. Chaos and Coarse Graining in Statistical Mechanics by Annick Lesne, 9780521895934, available at Book Depository with free delivery Comments: Summer school `Fundamental Problems in Statistical Physics (Leuven, Belgium), June 16-29, 2013. To be published in Physica A.Chaos and Coarse Graining in Statistical Mechanics While statistical mechanics describe the equilibrium state of systems with many

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